US 08/809,620 (TE20060717a) Goulven VERNOIS - Reply to Action 02/16/06

Arradon on July 16, 2006

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Commissioner of Patent Mr. Thong Q. Nguyen Art Unit 2872 Via fax 571-273-8300

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APPLICATION 08/809,620

OPTICAL DEVICE - Reply to the Office Action Summary mailed on February 16, 2006

Mr. Thong Q. Nguyen Examiner - Art Unit 2872

Dear Sir,

I think with you that a substitute specification under 37 CFR 1.121 (b)(3) is very appropriate 20 to achieve the application concerning the optical device..

I reply strictly with regard to optical device constituded by a membranous mirror, its actuating membrane, and the electromagnetic field binded to axis of the telescope and allowing the rough chaping of the actuating membrane.

The folding of the mirror and of the actuating membrane, absolutely essential to put in orbit 25 this optical device as soon as it is large, is inseparable of this optical device, and inserted in spécification and claims.

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OPTICAL DEVICE

- I New abstract
- Substitute specification under 37 CFR 1.121 (b)(3)
 - a) Instruction
 - b) Statement
- III Amended claims under 1.121
- IV Amended drawings under 1.121 (d)
- V Claims listing
- VI Working document for sbstitute specification showing no new matter

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On the detailled action mailed March 16, 1999, the Examiner determines the Groups I, II, II, IV.

Unfortunately, the description of the optical device comprising membranous mirror, its separate actuating membrane, and magnetic field tied to telescope, was scattered in several of the Groups I, II, III, IV.

To simplify, I take in account a Group A strictely with regard to :

- a) the optical device constituted by the membranous mirror and its actuating membrane, allowing a micro control of the shape of the mirror,
- b) the magnetic field tied to the telescope and allowing the macro control of the shape of the actuating membrane, the existence of these two control levels being an essential and fondamental difference with former art (Andrea Theodoro Augoustini, GB 2 247 323 A)
 - c) the folding of the mirror and of the actuating membrane.

I do not take in account the manufacturing of these membranes

As peripherical or central ruffles are not essential, they are canceled.

To make the drawings in appropriateness with the new description, this drawings are 25 cleaned of all parasitic elements, but, on the other hand, coil 72 of the former PCT Fig 1, producting magnetic field tied to telescope will be put in new Fig 1, with dipole 142 of former PCT Fig 43 having the same function.

On this manner, the new Figure 1 is very expressive of the claimed

invention. 30

The new specification that I am invited to write under 37 CFR 1.121 (b)(3) and 1.125 (a), (b), (c), is only in relation with this Group A.

For more explanations about folding of the membranes, the Applicant respectfully invites the Examiner to read the US Patent 6,676,262 B1.

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Goulven VERNOIS Reply to Action 02/16/06
RETRACT

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STYLES

VERNOIS GOULVEN

I - NEW ABSTRACT

Telescope opical device constituted by a concave miror 1, a concave actuating membrane 2, and magnetic dipoles 3 and 4 tied to the telescope; the actuating membrane 2 microshapes the membranous mirror 1, and the magnetic dipoles 3 and 4 macroshape the actuating membrane 2. Folding of the mirror 1 and of the actuating membrane 2 by regular distortions of the original concve shape.

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Substitute specification under 37 CFR 1.121 (b)(3) — Casama - 11 -

a) Instruction

Application 08/809,620 Goulven VERNOIS

INSTRUCTION TO REPLACE THE SPECIFICATION

37 CFR § 1.121 (3) (i)

!, Goulven VERNOIS, declare that the former specifications must be replaced 10 by the present substitute specification.

Arradon, on the 15th of/July 2006

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Goulven VERNOIS

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5 US 08/809,620 (TE20060717a) Goulven VERNOIS - Reply to Action 02/16/06

- II - Substitute specification under 37 CFR 1.121 (b)(3)

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b) Statement

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Application 08/809,620
Goulven VERNOIS

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STATEMENT THAT THE SUBSTITUTE SPECIFICATION DOES NOT INCLUDE NEW MATTER - 37 CFR 1.125 (b)

I, Goulven VERNOIS, declare that the present substitute specification does not include new matter.

This declaration is made with the knowledge that willful false satement and the like so made is punishable by fine or emprisonnement, or both, under section 1001 of title 18 of the United States Code and that shuch willful false statement may Jeopardise the validity of the application or any patent issued thereon.

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Arradon, on the 15th of Jul \$\int 2006

Goulven VERNOIS

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